## (19) World Intellectual Property Organization International Bureau



(43) International Publication Date 25 March 2004 (25.03.2004)

PCT

## (10) International Publication Number WO 2004/024007 A1

(51) International Patent Classification<sup>7</sup>:

A61B 17/16

(21) International Application Number:

PCT/IB2003/004008

(22) International Filing Date:

12 September 2003 (12.09.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/411,236 60/411,237 16 September 2002 (16.09.2002) US 16 September 2002 (16.09.2002) US

(71) Applicant (for all designated States except US): PREC-IMED S.A. [CH/CH]; L'Echelette 7, CH-2534 Orvin (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DESARZENS, Yves [CH/CH]; Grand-Rue 12, CH-2606 Corgémont (CH). DAVIES, Hugh [GB/CH]; Chemin des Rochettes 1, CH-2523 Lignieres (CH). WHITE, Michel, Patrick [US/US]; 1213 Indian Trail Drive, Downingtown, PA 19345 (US). LECHOT, André [CH/CH]; Sous L'Eau-Belle 24, CH-2534 Orvin (CH). (74) Agents: GROSFILLIER, Philippe et al.; C/O BUGNION S.A., Case Postale 375, CH-1211 Genève 12 (CH).

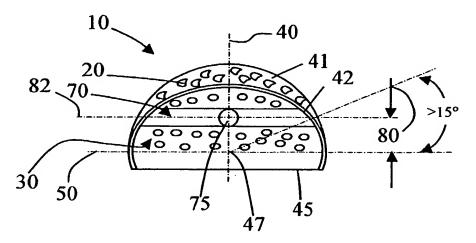
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INSET ACETABULAR REAMER COUPLING



(57) Abstract: An acetabular reamer for surgical use includes (a) a substantially hemispherical dome defining an equatorial plane, and (b) a reamer spindle interface structure fixedly attached to the inside of the dome so as to substantially inset the interface structure within the dome. This insetting of the interface structure helps minimize the size of an assembly of the reamer and a reamer spindle when performing minimally invasive joint surgery.